

Amendments to the Claims

Listing of Claims:

Original Claims 1-11 (canceled).

Replacement Claims 1-10 (canceled).

Claim 12 (new): A force sensor device, comprising:

a support of two arms carrying a longitudinal electromechanical element in form of a nanostructure, said nanostructure having electric properties changeable in response to a mechanical deformation due to a force; and

an actuator disposed to transmit a force to said nanostructure.

Claim 13 (new): The force sensor device according to claim 12, wherein said nanostructure is a structure selected from the group consisting of a nanotube, a carbon nanotube, a boron-nitride nanotube, and a quasi one-dimensional nanostructure.

Claim 14 (new): The force sensor device according to claim 12, wherein the changeable electric property is a conductivity of said nanostructure.

Claim 15 (new): The force sensor device according to claim 12, wherein said support is a U-shaped support.

Claim 16 (new): The force sensor device according to claim 12, wherein each of said two arms is formed with a cusp and said nanostructure is mounted to said cusp.

Claim 17 (new): The force sensor device according to claim 12, which further comprises a movable mass formed with a tip disposed between said two arms, and wherein said mass is disposed to be movable due to an acting acceleration and said tip is disposed to act on said nanostructure due to a resulting force.

Claim 18 (new): The force sensor device according to claim 12, wherein said nanostructure is a first nanostructure and a second nanostructure is carried by said arms for compensating for environmental effects.

Claim 19 (new): The force sensor device according to claim 18, wherein each of said two arms is formed with a cusp carrying said first nanostructure and with a cusp carrying said second nanostructure.

Claim 20 (new): The force sensor device according to claim 18, which further comprises an insulation formed on at least one of said arms for electrically separating said nanostructures.

Claim 21 (new): The force sensor device according to claim 18, wherein said second nanostructure is a nanotube, a carbon nanotube, or a quasi one-dimensional nanostructure.